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1987 Census of Construction

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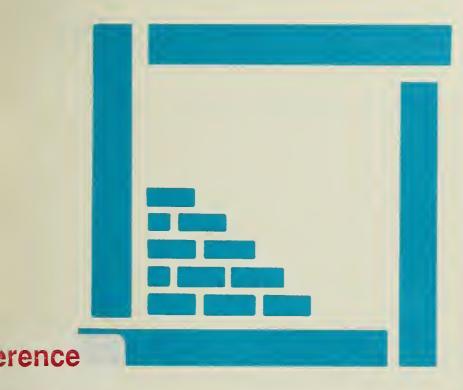
Construction Industries

CC87-I-1

INDUSTRY SERIES

General Contractors— Single-Family Houses

Industry 1521



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Many persons participated in the various activities of the 1987 Census of Construction Industries.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. Barry A. Rappaport, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of A. William Visnansky, Chief, Census Operations Branch, with primary staff assistance by Juliana Van Berkum, Barbara J. Hadden, Edward R. Glover, Susan L. Hostetter, Shirley M. Baker, and Carolyn J. Stone. Under the direction of Jesse Pollock, Edward K. Ricketts and Dennis K. Duke developed the sampling plans and variance and estimation specifications.

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If you have any questions concerning the statistics in this report, call (301) 763-7546.

1987

Census of Construction Industries

CC87-I-1

INDUSTRY SERIES

General Contractors— Single-Family Houses

Industry 1521

Issued March 1990



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PURPOSE AND USES OF THE ECONOMIC **CENSUSES**

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the-

Census of Retail Trade

Census of Wholesale Trade

Census of Service Industries

Census of Transportation

Census of Manufactures

Census of Mineral Industries

Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as Current Construction Reports (building permits, housing starts, and value of new construction put in place), *Current Business-Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures, Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.1 This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity that follow:

- 1. Building construction by general contractors or by operative builders- General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
- 2. Heavy construction general contractors—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
- 3. Construction by other special trade contractors-These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

Employer Companies

Developing the sampling frame for employer companies—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for singleestablishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

Selecting the employer sample—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial fourdigit SIC code, in the same State, in the same metropolitan

area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

Estimation procedures for 1987 and 1982 data—Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_{C} = \sum_{i}^{C} x_{i} / p_{i}$$

where: x'c is the simple unbiased estimate of a characteristic for a publication cell.

x. is the reported value of a characteristic for an individual establishment in the publication cell.

p is the selection probability of that firm.

n_c is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.

To discuss a special tabulation before submitting specifications, call 301-763-7546.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes constructionrelated expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- * Sampling error exceeds 40 percent.
- ** Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- Represents zero.
- † Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
- the Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	For U.S.	By State	By employment size	By size class of dollar value of business done	By type, class, ownership, kind of business, and location of construction ¹	By specialization in types of constuction
Assets and depreciation (gross book value): Beginning of year—buildings, machinery and equipment End of year—total End of year—buildings, machinery and equipment Depreciation charges during year— buildings, machinery and equipment	3 1, 3 3	1	5	6		
Capital expenditures: Total capital expenditures New buildings—machinery and equipment Used buildings—machinery and equipment	1, 3 3 3	1	5	6		
Communication services, costs for	2					
Employees: All employees—average number Construction workers—average number Other employees—average number	1, 2 1, 2, 9 2	1 1, 9	5	6		8
Employer costs for fringe benefits—legally required and voluntary expenditures	2		,			
Establishments—number in business during year	1, 2, 4, 9	1, 9	5	6		8
Hours—construction workers: TotalQuarterly	1, 2, 9 2, 9	1, 9 9	5	6		
Inventories	4					
Materials, components, supplies, and fuels—costs for	1, 2	1	5	6		
Payroll: First quarter, all employees. Annual: All employees. Construction workers Other employees.	2	1	5	6		8
Power, fuels, and lubricants—costs for	2					
Proprietors and working partners	2					
Ratios, State	13	13				
Value and receipts: Dollar value of business done, total	2 1, 2, 4 2 2	1	5 5	6 6	11 2, 7, 10	8
Net value of construction work	1, 2 1, 2	1	5 5	6		8 8
Rental costs:	., _	•				
Total	1, 2 2 2	1	5	6		
Repairs to buildings and other structures	2					
Repairs to machinery and equipment	2					
Selected industry ratios	12					
Subcontract work to others, costs for	1, 2	1	5	6		8

Note: Data for 1982 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work. Ownership—private or government owned.

²Land receipts are shown separately for SIC's 1531 and 6552 only.

CONTENTS

General Contractors—Single-Family Houses

[Page numbers listed here omit the prefix that appears as part of the number of each page] Page Ш Users' Guide for Locating Statistics in This Report by Table Number 2 Summary of Findings______ **FIGURES** Value of Construction Work by Type of Construction ______ Selected Costs Per Dollar Value of Business Done **TABLES** Statistics for Establishments With Payroll 2. 3. 4. 12 15 11. 16 Selected Industry Ratios by State: 1987 ______ Statistics for Establishments Without Payroll appear in the U.S. Industry Summary Report. **APPENDIXES** Explanation of Terms ______Standard Industrial Classification Titles for Industry Groups and Industries _____ В. Geographic Divisions and States

Publication Program _____ Inside back cover

SUMMARY OF FINDINGS

Establishments classified in this industry are primarily engaged in the construction of single-family houses, rowhouses, and townhouses (including new work, additions, alterations, remodeling, and repair). For additional examples, refer to the 1987 Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget, Executive Office of the President.

During 1987, the establishments with paid employees classified in this industry accounted for \$40.1 billion in total dollar value of business. Of this amount, \$39.1 billion were for the value of construction work. These establishments paid out \$12.9 billion for materials, components, and supplies and \$11.8 billion for construction work subcontracted to others. Costs for selected power, fuels, and lubricants for this industry were \$493 million. Value added for 1987 was \$15.0 billion.

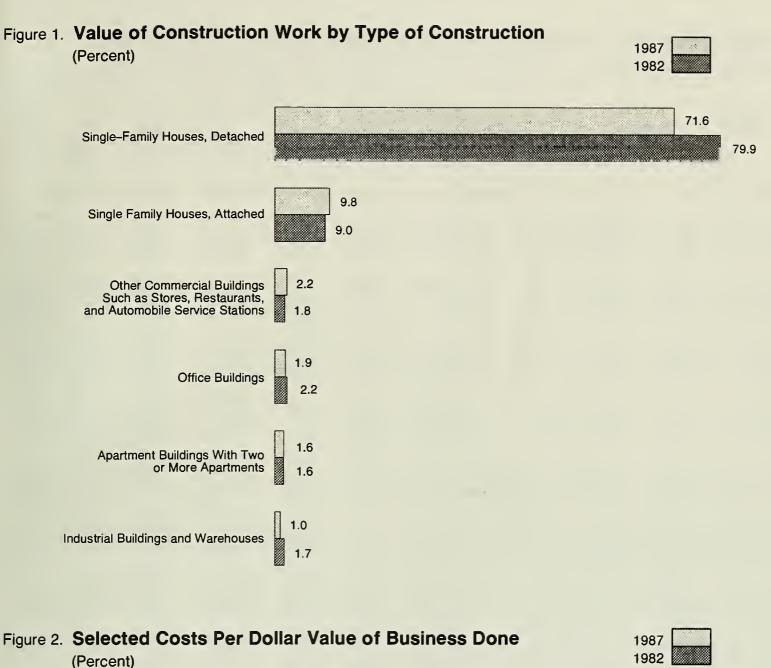
There were 90,378 establishments with total employment averaging 396,291 during the year. Total payroll for 1987 was \$6.3 billion. Total hours worked by construction workers during the year were 470 million hours.

Larger establishments with 20 employees or more, while representing only 2 percent of the total number of employer establishments in this industry accounted for 22 percent of all business done.

A "construction establishment" is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sampled establishment covering domestic operations. Separate reports were not, however, required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have excluded the value of work in progress during the calendar year. Receipts may have also excluded work done by builders engaged in construction for sale on their own account or for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

The data in this report are estimated from a sample survey and are subject to sampling variability as well as errors of response and nonreporting. The relative standard error shown in the tables is a measure of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.



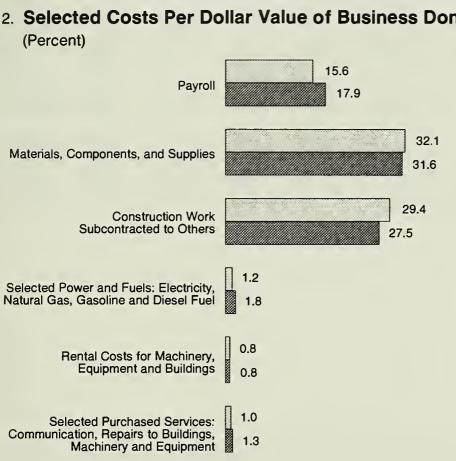


Table 1. General Statistics for Establishments With Payroll by State: 1987 and 1982

					1987			
		Emplo	yees**	Pay	/roll			Not
Location of establishment	Number of establishments	All	Construction workers	All employees	Construction workers	Construction worker hours (thousands)	Value of construction work	Net value of construction work†
	А	В	С	D	E	F	G	н
United States	9 0 37 8	3 96 2 91	307 305	6 272 178	4 342 944	470 499	39 098 146	27 319 239
Alabama	1 271	5 816	4 579	71 482	49 980	6 613	497 097	352 132
	195	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1 136	5 418	4 043	86 245	56 893	6 521	597 031	368 915
	550	1 816	1 400	24 508	16 165	2 124	164 821	117 192
	10 627	50 427	39 562	886 556	620 708	53 876	5 467 742	3 539 248
Colorado	1 088	4 711	3 603	77 306	53 957	5 643	492 042	321 550
	1 859	9 836	7 831	183 708	126 031	12 549	997 480	731 743
	425	2 326	1 861	35 266	25 760	3 034	208 310	144 903
	57	231	167	4 517	2 691	318	22 611	13 662
	4 728	25 482	18 178	395 211	242 117	26 918	3 174 347	2 080 641
Georgia	2 058	8 816	6 854	118 356	80 929	9 956	(D)	632 254
	398	1 910	1 477	38 456	27 446	2 157	273 734	174 414
	297	1 025	801	12 882	9 567	1 118	91 375	58 999
	3 143	13 514	10 610	234 578	165 368	17 054	1 392 960	947 743
	1 924	8 234	6 410	127 317	89 509	10 399	713 896	537 921
lowaKansas	736	2 219	1 816	27 076	21 465	3 079	183 432	134 461
	782	3 038	2 336	44 548	30 745	3 697	279 739	206 251
	807	2 797	2 326	37 003	27 637	3 259	241 910	180 708
	812	2 768	1 870	36 270	22 386	2 569	216 736	160 305
	1 062	5 468	4 474	78 864	60 524	7 578	421 697	312 580
Maryland	2 484	12 947	10 147	211 820	145 456	16 237	1 249 590	875 864
	3 243	15 444	12 259	284 227	194 084	19 911	1 508 197	1 088 391
	2 868	12 298	9 626	195 562	138 199	14 988	1 211 838	858 113
	1 681	6 640	5 173	117 093	80 508	7 625	692 733	492 853
	623	2 359	1 926	26 046	19 586	2 709	170 528	128 364
Missouri	1 827	8 054	6 378	125 870	91 783	9 887	675 705	509 915
	355	815	678	10 734	8 610	739	63 289	47 518
	621	2 037	1 550	27 841	18 358	2 419	168 995	118 184
	404	1 866	1 404	35 565	24 374	2 293	242 541	149 765
	1 138	5 936	4 853	100 242	73 497	7 759	478 134	356 064
New Jersey New Mexico New York North Carolina North Dakota	3 656	16 262	12 715	301 510	205 019	19 999	1 709 637	1 225 226
	790	3 035	2 410	38 394	28 077	3 630	213 351	155 698
	6 779	28 883	22 943	460 952	332 700	37 904	2 494 522	1 919 295
	3 074	14 315	10 980	202 833	135 018	17 178	1 348 543	920 773
	214	678	553	7 400	5 894	868	45 585	36 726
OhioOklahomaOregonPennsylvaniaRhode Island	3 206	12 831	9 973	201 425	142 652	15 928	1 309 904	954 666
	529	1 700	1 056	25 157	13 490	1 317	173 060	112 381
	1 234	3 673	2 636	47 715	31 787	3 324	329 129	225 695
	4 697	21 006	16 263	335 214	229 483	27 570	2 294 671	1 596 712
	546	2 249	1 906	35 251	27 611	2 679	183 421	139 240
South Carolina South Dakota Tennessee Texas Utah	1 562	6 838	5 242	88 976	60 519	7 976	642 020	455 251
	221	700	634	6 845	6 134	892	33 376	28 389
	1 331	5 967	4 784	74 902	53 920	7 324	513 227	389 298
	3 614	13 373	9 139	197 930	120 565	13 507	1 408 821	988 478
	512	1 495	1 190	20 060	15 610	1 762	166 365	110 130
Vermont Virginia Washington West Virginia Wisconsin Wyoming	743	3 804	3 092	62 394	47 409	5 386	319 208	224 617
	2 999	14 995	11 632	212 393	142 095	17 394	1 265 562	920 637
	2 595	8 318	6 571	122 939	91 721	8 163	753 601	517 739
	667	2 440	1 974	28 870	22 547	2 893	139 313	114 981
	2 006	7 893	6 139	123 584	89 097	9 962	(D)	539 300
	182	(S)	(S)	(S)	(S)	(S)	(S)	(S)

In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

		1987—	Con.				1982					
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost for machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††	error (pe	ive star of estir ercent) i olumn-	nate or	Location of establish- ment
1	J	к	L	М	N	0	Р	Q	В	Н	М	
14 969 716	13 356 645	11 778 907	324 844	515 125	3 342 100	309 614	19 64 6 355	7 876 520	1	1	2	U.S.
177 006	187 629	144 964	3 255	5 636	50 661	5 094	301 196	104 771	6	7	18	AL
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	AK
218 421	167 385	228 116	4 224	8 359	52 538	5 384	396 630	148 795	5	8	15	AZ
56 521	67 273	47 629	1 141	2 046	11 617	2 331	143 305	60 813	8	9	27	AR
2 241 792	1 450 821	1 928 494	53 522	57 989	424 633	34 439	2 389 711	997 916	2	3	5	CA
173 665	157 463	170 492	4 462	5 540	54 933	7 722	516 800	208 235	6	7	18	CO
428 651	329 087	265 737	8 670	17 838	93 817	4 345	261 419	106 320	4	4	11	CT
79 387	67 856	63 406	1 699	3 325	15 591	1 105	65 951	30 583	9	9	24	DE
7 955	(D)	8 948	94	271	2 983	616	41 209	13 197	19	12	26	DC
1 006 086	(D)	1 093 706	21 480	34 809	198 697	21 766	1 739 372	690 951	2	3	9	FL
308 826	338 535	(D)	5 067	6 413	72 346	6 690	425 274	156 981	5	6	10	GA
114 574	63 758	99 319	2 619	2 866	21 556	1 661	131 839	63 087	6	8	21	HI
32 040	28 218	32 376	591	632	8 283	1 569	109 458	45 729	11	12	37	ID
549 697	445 902	445 216	7 353	17 262	99 589	9 931	638 528	265 023	3	4	8	IL
301 004	270 998	175 975	4 726	11 510	62 562	6 233	325 939	134 411	4	5	15	IN
70 525	67 327	48 970	745	2 197	23 635	2 972	142 904	58 204	9	12	19	IA
109 974	98 781	73 488	2 737	4 123	30 012	3 102	171 798	71 586	7	9	23	KS
87 614	99 802	61 201	1 754	2 259	28 994	3 502	157 383	61 190	6	10	28	KY
90 930	75 546	56 431	1 714	1 269	26 812	(S)	(S)	(S)	9	8	25	LA
171 027	146 065	109 117	4 152	8 991	31 981	1 962	91 770	39 983	5	5	13	ME
481 626	417 373	373 725	9 403	20 071	89 815	8 236	461 639	200 881	3	5	9	MD
636 125	507 014	419 806	12 540	26 988	112 360	6 543	429 286	171 522	3	4	9	MA
441 816	444 870	353 724	10 124	16 962	94 944	7 289	464 834	185 654	3	4	14	MI
271 143	243 012	199 879	5 754	10 780	56 122	5 570	377 640	144 031	4	5	15	MN
71 139	63 567	42 164	1 566	2 433	20 868	2 755	155 753	59 913	9	10	28	MS
302 189	223 225	165 789	5 025	9 941	73 657	4 843	277 164	116 922	4	4	13	MO
26 983	21 653	15 770	474	1 221	12 111	1 369	77 374	34 070	11	13	30	MT
59 157	59 729	50 810	1 324	2 830	18 530	2 195	130 450	54 656	8	9	20	NE
91 992	61 658	92 776	1 847	1 304	11 312	1 795	120 926	49 948	8	12	24	NV
196 197	166 209	122 069	5 521	9 241	48 655	1 951	124 668	46 422	4	5	10	NH
703 419	636 108	484 411	18 331	21 508	136 686	8 617	536 679	217 048	3	3	6	NJ
81 416	78 204	57 653	1 804	1 541	25 428	3 159	155 897	64 290	7	8		NM
1 052 516	903 127	575 226	27 791	40 302	228 508	15 659	908 313	382 293	2	3		NY
452 570	499 754	427 770	9 410	15 345	109 568	9 448	532 014	188 051	4	4		NC
18 017	19 339	8 858	323	*419	*10 532	(S)	(S)	(S)	17	19		ND
513 005	466 288	355 237	10 379	17 004	105 503	10 127	678 143	268 831	3	5	8	PA
55 181	63 322	60 679	2 392	1 204	25 050	4 550	281 087	109 520	9	13	25	
128 055	109 412	103 434	3 696	4 303	29 853	3 306	182 868	77 375	8	8	21	
793 325	853 835	697 959	14 951	39 184	194 690	14 751	856 196	339 327	3	3	8	
69 702	71 068	44 180	1 425	3 033	15 062	1 537	73 538	32 014	7	8	20	
222 500	251 189	186 769	4 869	5 954	72 020	5 574	342 766	119 470	5	6	19	SC
15 667	14 084	4 986	191	*774	6 690	906	48 303	18 807	16	15	45	SD
196 234	203 400	123 928	3 375	8 793	46 818	4 762	316 481	140 608	6	8	24	TN
503 828	523 654	420 343	16 860	12 945	169 050	24 586	1 750 058	659 519	3	4	10	TX
57 224	55 300	56 235	772	1 572	22 449	2 354	166 029	69 498	8	10	25	UT
120 967	109 751	94 591	2 313	5 915	25 618	1 785	98 430	37 118	5	6	15	VT
499 634	452 604	344 924	9 100	14 957	108 244	9 527	485 030	190 559	3	4	10	VA
285 585	244 759	235 862	5 623	7 542	56 968	7 198	507 511	215 374	4	4	12	WA
65 780	51 112	24 331	829	1 819	14 144	2 381	93 198	41 914	8	8	26	WV
276 405	282 164	(D)	5 121	14 399	71 713	5 471	324 319	117 457	4	5	13	WI
(S)	(S)	(S)	(S)	(S)	(S)	1 258	83 199	32 076	(S)	(S)	(S)	WY

Table 2. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[mousand dollars. Detail may not add to total due to rounding. For meaning of appreviations and symbol					Relat	ive stan		
ltem	1987	1982	1977	1972	1987	1982	1977	1972
Number of establishments in business during year	90 378	72 115	100 993	(S)	1	1	1	(S)
Proprietors and working partners	24 230	27 053	65 614	(S)	2	1	1	(S)
All employees**	396 291	309 614	437 681	(S)	1	1	1	(S)
Construction workers:	_							
March	283 720 312 298 332 509	230 442 253 129 262 053	332 747 407 019 416 252	(S) (S)	1 1 1	1 1	1 1 1	(S) (S)
November	300 695 307 305	241 436 253 457	373 479 382 806	(S) (S) (S) (S) (S)	1		1	(S) (S) (S) (S) (S)
Other employees:								
March May	86 843 89 075	55 640 (NA)	51 876 (NA)	(S) (NA)	1	(NA)	(NA) (NA)	(S) (NA)
August November	91 730 88 294	(NA) (NA)	(NA) (NA)	(NA) (NA)	1	(NA) (NA)	(NA)	(NA) (NA)
Average	88 985	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands): January to March	103 906	82 991	(NA)	(NA)	1	1	(NA)	(NA)
April to June July to September	120 287 129 217 117 088	92 481 96 670 89 525	(NA) (NA) (NA)	(NA) (NA)	1		(NA) (NA)	(NA) (NA)
October to December Total hours worked	470 499	361 668	(NA)	(NA) (NA)	1	1 1	(NA) (NA)	(NA) (NA)
Payroll, all employeesPayroll, construction workers	6 272 178 4 342 944	3 606 261 2 748 962	3 736 421 3 066 031	(S) (S) (S)	1	1	1	(S) (S) (S)
Payroll, other employees	1 929 234	857 299	670 390	(S)	i	1	1	(S)
First quarter payroll, all employees	1 362 439	834 503	773 525	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	1 181 709 939 942 241 767	667 857 520 227 147 629	617 994 459 086 158 908	(NA) (NA) (NA)	1 1 1	1 1	2 1 3	(NA) (NA) (NA)
Dollar value of business done	40 105 269 39 098 146	20 129 090 19 646 355	21 890 323 21 292 675	(S)	1	1	1	(S)
Value of construction work subcontracted in from others Land receipts ²	3 035 374 (NA)	1 016 099 (NA)	1 161 918 (NA)	(S) (S) (S) (NA) (S)	4	(NA)	14	(S) (S) (NA)
Other business receipts	1 007 122	482`734	597 649	(S)	(NA) 2	2	(NA) 2	(S)
Net value of construction work†	27 319 239	14 115 590	15 070 355	(S)	1	1	1	(S)
Value added††	14 969 716	7 876 520	7 297 013	(S)	1	1	1	(S)
Selected costs	25 135 553 12 863 522	12 252 569 6 357 278	14 593 311 8 013 183	(S) (S)	1	1	1	(S) (S) (S)
Construction work subcontracted to othersSelected power, fuels, and lubricants	11 778 907 493 123	5 530 765 364 526	6 222 320 357 808	(S) (S) (S) (NA)	1	1	2	(, ,, ,,
Electricity	89 445 16 792	66 360 13 669	48 666 24 379	(NA) (NA)	2	1 2	1 4	(NA) (NA)
Gasoline and diesel fuelOn highway use	356 584 323 666	256 574 (NA)	213 891 (NA)	(NA) (NA)	1	(NA)	(NA)	(NA) (NA)
Off highway useOther, including lubricating oils and greases	32 917 30 300	(NA) 27 921	(NA) 70 873	(NA) (NA)	4 2	(NA) 2	(NA) 1	(NA) (NA)
Rental cost for machinery, equipment, and buildings	324 844 170 465 154 379	167 870 98 857 69 013	104 457 68 632 35 825	(NA) (S) (NA)	2 4 2	2 2 2	2 2 2	(NA) (S) (NA)
Selected purchased services	403 094	266 781	442 884	(NA)	2	1	3	(NA)
Communication services	180 919 30 314 191 860	113 080 17 990 135 710	145 680 27 298 269 906	(NA) (NA) (NA)	2 4 2	1 2 1	8 5 2	(NA) (NA) (NA)
Ownership of construction projects: Value of construction work1	39 098 146	19 646 355	21 292 675	(S)	1	1	1	(S)
Government owned Federal	1 065 338 401 859	891 347 (NA)	551 128 (NA)	(S) (S) (NA)	5 8 5	10 (NA)	3 (NA)	(S) (S) (NA) (NA)
State and localPrivately owned	663 479 38 032 807	(NA) 18 755 007	(NA) 20 741 546	(NA) (S)	5	(NA)	(NA) 1	(NA) (S)

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders, and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 3. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

item			Relative standard (perce	
	1987	1982	1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	397 530	2 305 406 276 325 179 465 96 859 133 706	2 2 2 3 6	1 2 2 2 2 3
End-of-year gross book value of depreciable assets	3 342 100	2 448 024	2	1
Depreciation charges during year	426 187	354 917	2	1
Buildings and other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	98 974 68 204 30 770	807 813 49 981 38 988 10 993 39 038	4 5 7 7 7	2 4 5 9 6
End-of-year gross book value of depreciable assets	1 098 812	818 757	4	2
Depreciation charges during year	86 124	73 391	4	2
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	416 150 329 326 218 613 86 824	1 497 592 226 343 140 477 84 682 85 866 94 667	1 2 2 3 4 4	1 1 2 2 2 2 3
End-of-year gross book value of depreciable assets	2 243 287	1 629 267	1	1
Depreciation charges during year	340 063	281 526	2	1

Table 4. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments: Number Value of construction work	90 378 39 098 146	1 1
Establishments with inventories: Number	28 780 18 584 190 365 359 348 682	1 2 6 5
Establishments with no inventories: Number Value of construction work	48 409 14 893 565	1 2
Establishments not reporting: Number Value of construction work	13 189 5 620 391	2 2

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

			Establishments with an average of—									
Selected statistics	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more		
1987												
Number of establishments All employees** Payroll, all employees Construction worker hours (thousands) Dollar value of business done Value of construction work† Net value of construction work†	90 378 396 291 6 272 178 470 499 40 105 269 39 098 146 27 319 239	(S) (S) (S) (S) (S) (S) (S)	17 278 107 140 1 636 935 128 024 9 751 021 9 555 468 6 795 496	6 093 78 513 1 353 705 97 454 7 869 437 7 697 348 5 327 200	1 882 51 992 945 357 64 364 5 183 306 5 051 520 3 470 061	257 16 817 340 246 20 576 1 672 618 1 619 631 1 098 190	50 7 255 143 349 8 325 908 487 819 772 469 598	15 4 890 151 182 5 594 1 060 251 920 260 643 559	2 723 (D) 1 837 (D) (D) (D)	- - - -		
Value added††	14 969 716 13 356 645 11 778 907 324 844 515 125 3 342 100	(S) (S) (S) (S) (S) (S)	3 649 918 3 341 130 2 759 972 73 665 122 595 798 815	3 021 143 2 478 146 2 370 148 69 937 85 644 617 865	2 060 855 1 540 991 1 581 458 50 632 72 299 380 834	671 811 479 367 521 440 17 620 14 563 108 235	349 719 208 594 350 174 10 004 12 681 82 941	454 552 328 998 276 701 10 080 15 986 69 039	(D) (D) (D) (D) (D)	= = = = = = = = = = = = = = = = = = = =		
All employees** Total construction receipts¹ Value added†† 1987 RELATIVE STANDARD ERROR OF	309 614 19 646 355 7 876 520	105 577 6 394 132 2 449 654	71 791 4 289 707 1 707 748	58 751 3 590 653 1 455 882	41 865 2 716 103 1 053 814	(S) (S) (S)	(S) (S) (S)	3 530 288 527 140 806	3 853 496 877 295 637	(D) (D) (D)		
All employees** Net value of construction work† Capital expenditures, other than land	1 1 2	(S) (S) (S)	2 2 5	2 2 5	2 1 4	(W) 3	\$38	% % % %	(\$) (D) (D)	=		

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 6. Selected Statistics by Size Class of the Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					Establishm	ents with dol	lar value of b	usiness done	-		
Selected statistics	Total	Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	to	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments All employees** Payroli, all employees Construction worker hours (thousands) Dollar value of business done Value of construction work¹ Net value of construction work†	90 378 396 291 6 272 178 470 499 40 105 269 39 098 146 27 319 239	(S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S)	9999999	(S) (S) (S) (S) (S) (S) (S)	16 477 75 488 1 069 566 94 591 5 720 778 5 620 350 4 251 424	10 557 73 072 1 218 532 88 931 7 279 396 7 153 133 5 090 736	6 314 69 062 1 303 474 82 400 9 232 797 9 012 756 6 173 617	1 535 30 746 658 100 37 017 5 156 684 5 047 547 3 213 397	371 13 216 318 854 16 167 2 523 183 2 470 204 1 545 223	198 17 097 422 035 17 565 4 357 074 4 038 220 2 307 877
Value added††	14 969 716 13 356 645	(S) (S)	(S) (S)	(S)	(S) (S)		2 661 040 2 555 959	3 303 794 3 089 863	1 714 174 1 608 359	881 044 717 157	1 518 887 1 107 844
others	11 778 907 324 844 515 125 3 342 100	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	1 368 925 50 150 91 350 596 166	2 062 396 58 111 91 260 597 432	71 639 102 991 676 024	1 834 150 42 821 54 660 299 631	924 981 18 640 22 487 180 299	1 730 342 26 843 35 790 194 802
1982	3 042 100	(3)	(3)	(3)	(0)	330 100	337 432	070 024	255 661	100 233	154 502
All employees** Total construction receipts¹ Value added††	309 614 19 646 355 7 876 520	11 659 124 921 52 969	14 859 336 539 146 574	30 108 1 039 133 454 633	68 595 3 128 996 1 295 272	57 689 3 391 527 1 321 071	48 612 3 495 261 1 340 427	38 458 3 352 541 1 289 244	(S) (S) (S)	(S) (S) (S)	13 990 2 016 945 933 228
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1 1 2	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	2 2 5	2 2 5	2 2 5	2 3 7	1 3 6	1 4 3

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

In earlier censuses construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 7. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

		Value of cons	truction work1		_	1-4 - 1		
Type of construction	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair		of estimat	andard er te (percen lumn—	
	А	В	С	D	_ A	В	С	D
1987								
Value of construction work ¹	39 098 146	23 737 617	9 674 990	2 101 739	1	1	1	1
Building construction Single-family houses	35 267 533 31 833 307	23 569 316 21 681 563	9 623 0 99 8 402 804	2 075 116 1 748 940	1	1	1	2 2
Single-family houses, detached Single-family houses, attached	27 994 892 3 838 414	18 640 661 3 040 902	7 794 766 608 038	1 559 465 189 474	1 3	1 3	1 5	2
Apartment buildings with two or more apartments	6 3 8 197	414 214	152 435	71 547	5	7	6	5
Other residential buildings, including hotels and motels	345 309 740 709	184 015 404 125	122 3 59 289 705	38 933 46 878	14 7	26 12	6 4	7 5
Other commercial buildings such as stores, restaurants, and automobile service stations	875 552	447 716	357 953	69 883	3	4	4	5
Industrial buildings and warehouses	379 143 256 167	22 3 029 144 148	119 218 85 008	36 896 27 011	3	4 5	5	6 7
Warehouses	122 975	78 881	34 209	9 884	5	6	8	10
Other nonresidential buildings	455 316	214 654	178 624	62 0 3 9	8	10	13	20
Nonbuilding construction	248 813	168 299	51 891	26 622	6	7	14	12
Construction work, n.s.k.	3 583 600	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
1982								
Value of construction work¹	19 646 355	10 482 203	6 379 436	2 764 715	1	1	1	1
Building construction	19 427 094	10 360 124	6 333 011	2 733 959	1	1	1	1
Single-family houses Single-family houses, detached	17 466 476 15 693 418	9 422 177 8 18 3 545	5 664 516 5 3 00 274	2 3 79 78 3 2 209 599	1	1	1	1
Single-family houses, attachedApartment buildings with two or more apartments	1 773 058 314 738	1 238 632 156 217	364 241 77 943	170 184 80 577	2	2	3	3
Office buildings	441 632	213 873	167 395	60 363	2	3	4	5
Other commercial buildings such as stores, restaurants, and automobile service stations	3 59 242	1 3 6 3 69	157 886	64 986	3	3	3 5	5
Industrial buildings and warehouses	335 705 242 133	180 974 12 3 1 3 4	95 345 75 192	59 3 85 43 807	3 4	3 4	6	5 7
Warehouses Other buildings	93 572 509 301	57 840 250 514	20 153 169 926	15 578 88 865	7 5	7 5	7	13 8
Nonbuilding construction	190 495	107 569	35 861	47 024	5	6	4	7
Construction work, n.s.k.	28 766	14 489	10 544	3 731	11	11	13	21

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.
²In 1982, data for additions, alterations, or reconstruction were collected separately for SIC 1521, 1522, 1531, 1541, and 1542. For all other industries, data are included with "New construction."

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1987

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or value of construction work for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the value of construction work by type of construction was not provided in table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

item	Number of establishments	All employees**	Payroll, all employees		onstruction ork For specialized type	Net value of construction workt	Value added††	Cost of construction work sub-contracted to others	stand of e	elative dard en estimat cent) fo	ror te or
	A	В	С	D	E	F	G	Н	В	D	—
All establishments	90 378	396 291	6 272 178	39 098 146	33 030 618	27 319 239	14 969 716	11 778 907	1	1	1
Establishments not specializing by type Establishments specializing 51 percent or more	5 070 85 308	33 351 362 940	591 326 5 680 852	3 344 267 35 753 879		2 174 159 25 145 079	1 351 018 13 618 698	1 170 107 10 608 799	1 2	1 4	1 8
SINGLE-FAMILY HOUSES, DETACHED											
All establishments specializing in type	69 805	291 820	4 621 630	28 8 9 5 022	26 645 839	20 345 443	10 889 043	8 549 579	1	1	1
Establishments with — 100 percent specialization	43 813 8 892 6 740 4 954 3 109 2 295	164 898 42 466 29 360 25 498 17 720 11 876	2 610 100 691 782 456 152 412 937 281 531 169 126	17 753 244 4 034 612 2 615 965 2 092 099 1 471 732 927 367	3 784 010	12 458 613 2 796 675 1 856 812 1 523 299 1 045 494 664 548	6 447 673 1 552 540 1 067 704 862 613 586 293 372 218	5 294 631 1 237 936 759 153 568 799 426 238 262 819	1 2 3 3 4 4	1 3 3 4 5	2 3 5 4 4 6
SINGLE-FAMILY HOUSES, ATTACHED											
All establishments specializing in type	3 5 0 5	23 477	452 606	3 2 55 855	2 785 943	2 035 802	1 212 927	1 220 053	3	4	5
Establishments with — 100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization 70 to 79 percent specialization 60 to 69 percent specialization 51 to 59 percent specialization	1 839 362 489 411 265 137	8 717 3 960 3 094 2 998 3 306 1 399	154 041 77 153 60 442 64 562 68 087 28 319	1 273 831 540 416 384 829 474 144 366 098 216 534	1 273 831 502 330 315 619 348 799 230 598 114 763	800 217 348 142 259 818 267 676 237 727 122 219	436 824 194 374 151 881 199 599 166 084 64 163	473 614 192 274 125 010 206 468 128 370 94 314	5 6 7 7 6	6 10 9 6 13 23	8 12 12 8 14 32

Table 9. Quarterly Construction Worker Hours and Employment for Establishments With

		Average	0	January 1	to March	April to	June
Location of establishment	Number of establishments	number of construction workers	Construction worker hours (thousands)	Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
	Α	В	С	D	Е	F	G
United States	90 378	307 305	470 499	283 720	103 906	312 298	120 287
Alabama	1 271	4 579	6 613	4 393	1 549	5 012	1 724
	195	(S)	(S)	(S)	(S)	(S)	(S)
	1 136	4 043	6 521	3 780	1 439	4 040	1 644
	550	1 400	2 124	1 298	468	1 440	555
	10 627	39 562	53 876	37 392	12 342	40 420	13 739
Colorado	1 088	3 603	5 643	3 216	1 244	3 489	1 372
	1 859	7 831	12 549	7 141	2 736	7 894	3 197
	425	1 861	3 034	1 698	693	1 843	768
	57	167	318	152	70	161	74
	4 728	18 178	26 918	17 736	6 435	18 085	6 767
Georgia Hawaii Idaho Illinois Indiana	2 058	6 854	9 956	6 739	2 369	7 043	2 642
	398	1 477	2 157	1 431	526	1 430	539
	297	801	1 118	673	224	920	314
	3 143	10 610	17 054	9 397	3 559	10 685	4 251
	1 924	6 410	10 399	5 649	2 202	6 567	2 697
lowa Kansas Kentucky Louisiana Maine	736	1 816	3 079	1 691	663	1 856	791
	782	2 336	3 697	2 290	878	2 313	888
	807	2 326	3 259	2 121	673	2 370	846
	812	1 870	2 569	1 797	660	2 037	666
	1 062	4 474	7 578	3 824	1 532	4 388	1 892
Maryland	2 484	10 147	16 237	9 347	3 568	10 259	4 102
	3 243	12 259	19 911	10 766	4 267	12 209	5 142
	2 868	9 626	14 988	8 504	2 992	9 982	3 867
	1 681	5 173	7 625	4 507	1 547	5 343	1 981
	623	1 926	2 709	1 887	627	1 995	732
Missouri Montana Nebraska Nevada New Hampshire	1 827	6 378	9 887	5 981	2 218	6 501	2 492
	355	678	739	588	170	702	186
	621	1 550	2 419	1 345	547	1 588	627
	404	1 404	2 293	1 405	601	1 555	614
	1 138	4 853	7 759	4 449	1 705	4 858	1 927
New Jersey New Mexico New York North Carolina North Dakota	3 656	12 715	19 999	11 470	4 419	12 803	5 040
	790	2 410	3 630	2 366	841	2 513	962
	6 779	22 943	37 904	20 537	8 115	23 558	9 789
	3 074	10 980	17 178	11 016	4 003	11 294	4 478
	214	553	868	512	225	629	212
Ohio Oklahoma Oregon Pennsylvania Rhode Island	3 206	9 973	15 928	8 838	3 272	10 160	4 153
	529	1 056	1 317	998	312	1 029	336
	1 234	2 636	3 324	2 453	744	2 601	811
	4 697	16 263	27 570	13 915	5 554	16 249	7 080
	546	1 906	2 679	1 717	579	1 877	663
South Carolina South Dakota Tennessee Texas Utah	1 562	5 242	7 976	5 306	2 010	5 394	2 055
	221	634	892	586	196	663	236
	1 331	4 784	7 324	4 526	1 662	4 728	1 841
	3 614	9 139	13 507	9 185	3 234	9 472	3 577
	512	1 190	1 762	1 002	364	1 182	461
Vermont	743	3 092	5 386	2 634	1 152	3 014	1 300
	2 999	11 632	17 394	11 131	3 916	12 026	4 444
	2 595	6 571	8 163	6 124	1 796	6 794	2 126
	667	1 974	2 893	1 788	608	1 912	704
	2 006	6 139	9 962	5 244	1 984	6 237	2 553
	182	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

Payroll by State: 1987

July to Sep	ptember	October to [December											
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)		Relative standard error of estimate (percent) for column—							Location of establish- ment		
н	1	J	К	В	С	D	Е	F	G	н	1	J	К	ment
332 509	129 217	300 6 95	117 088	1	1	1	1	1	1	1	1	1	1	U.S
4 812 (S) 4 199 1 531 41 736	1 700 (S) 1 722 567 14 574	4 099 (S) 4 153 1 332 38 699	1 638 (S) 1 714 533 13 220	6 (S) 6 8 2	8 (S) 8 13 2	6 (S) 6 9 2	9 (S) 8 15	9 (S) 6 9 2	10 (S) 8 13 2	6 (S) 7 8 2	8 (S) 8 13 2	6 (S) 6 8 2	8 (S) 9 13 3	AL AK AZ AR CA
3 851 8 545 2 095 183 18 826	1 584 3 497 846 86 6 938	3 856 7 747 1 807 171 18 065	1 441 3 117 724 86 6 776	6 4 10 21 3	8 5 13 26 4	8 4 10 23 3	9 5 13 29 4	6 4 10 20 3	8 6 13 26 4	6 4 11 19 3	9 6 14 23 4	7 4 9 22 3	8 6 12 26 4	CO CT DE DC FL
7 099 1 606 872 12 113 7 073	2 581 572 319 4 988 2 855	6 536 1 441 739 10 245 6 351	2 362 519 259 4 253 2 644	5 7 10 3 5	6 9 15 4 6	5 7 11 3 5	7 14 17 5 7	5 7 13 3 5	7 10 16 4 6	5 8 11 4 5	6 9 16 5 6	6 8 10 3 5	7 9 16 4 6	GA HI ID IL IN
1 958 2 440 2 465 1 874 5 018	859 983 899 622 2 147	1 757 2 300 2 347 1 772 4 668	765 947 839 620 2 005	9 7 7 10 5	12 10 11 12 7	11 8 7 10 5	15 11 11 12 7	10 8 7 11 5	12 10 11 12 7	9 7 7 11 5	12 10 11 13 7	10 7 7 11 5	12 10 10 13 7	IA KS KY LA ME
11 058 14 133 10 605 5 897 1 920	4 477 5 544 4 361 2 213 699	9 926 11 927 9 412 4 945 1 901	4 088 4 957 3 767 1 882 649	3 3 4 5 9	4 4 5 6 14	3 3 4 5	5 4 5 7 14	3 3 4 5	5 4 5 6 14	3 5 4 5 10	4 4 5 6 15	4 3 4 5 10	5 4 5 7 15	MD MA M! MN MN
6 717 749 1 760 1 408 5 536	2 699 208 666 567 2 251	6 312 673 1 509 1 250 4 570	2 476 174 577 509 1 874	4 12 8 8 4	5 17 11 10 5	4 13 9 9	6 19 12 12 6	4 13 9 9	6 19 12 11 5	4 12 8 8 4	6 18 11 10 6	4 12 9 8 4	5 18 11 11 5	MO MT NE NV NH
13 836 2 522 25 018 11 352 597	5 472 961 10 551 4 491 246	12 749 2 239 22 660 10 258 475	5 068 865 9 449 4 205 185	3 8 2 4 17	4 11 3 5 27	3 9 2 4 22	4 11 3 5 33	3 8 2 4 20	4 12 3 5 26	3 8 2 4 17	4 12 3 5 27	3 8 2 3 19	4 12 3 5 30	NJ NM NY NC ND
10 961 1 169 2 907 18 355 2 120	4 463 340 974 7 831 736	9 932 1 028 2 586 16 534 1 912	4 039 327 793 7 104 699	3 10 8 3 7	4 13 10 4 9	4 10 8 3 7	5 14 9 4 10	3 10 8 3 7	4 13 9 4 10	4 13 8 3 7	4 16 10 4 10	4 13 10 3 7	5 15 12 4 10	OH OK OR PA RI
5 383 719 5 184 9 284 1 302	2 013 249 1 994 3 534 491	4 886 568 4 697 8 615 1 275	1 897 208 1 825 3 160 444	5 16 6 4 9	7 21 7 5 13	5 17 7 4 10	7 23 8 5 15	5 18 6 4 9	7 20 8 5 13	5 17 6 4 9	7 22 7 5 13	5 17 6 4 10	8 23 8 5 14	SC SD TN TX UT
3 573 12 462 7 047 2 262 6 930 (S)	1 530 4 716 2 270 856 2 931 (S)	3 149 10 907 6 322 1 936 6 144 (S)	1 403 4 316 1 970 724 2 492 (S)	6 4 4 8 4 (S)	8 4 5 12 6 (S)	6 4 4 8 5 (S)	8 5 6 12 6 (S)	6 4 4 8 4 (S)	8 5 12 6 (S)	6 4 10 5 (S)	9 5 5 15 6 (S)	6 4 5 9 5 (S)	8 5 6 13 6 (S)	VT VA WA WV WI WI

Table 10. Value of Construction Work for Establishments With Payroll by Location of Construction Work: 1987 and 1982

Location of construction work		1987								
			work done by its located in State	Construction work done by establishments not located in this State		1982 construction	Percent change 1987 (col A)	Relative standard error of estimate (percent) for column—		nate or
		Value of construction work done in this State ¹ Number		Number	Value of construction work	receipts for work done in this State ¹	1982 (col F)		Jidiiiii—	
	A	В	С	D	Е	F	G	Α	С	E
United States	39 098 146	89 456	37 909 851	6 21 5	1 188 295	19 646 355	99.0	1	1	3
Alabama	507 951	1 270	(D)	69	(D)	284 142	78.8	7	(D)	(D)
	119 123	193	(D)	2	(D)	256 574	-53.6	14	(D)	(D)
	610 442	1 133	594 827	13	15 615	408 346	49.5	7	7	1
	187 437	542	164 042	23	23 394	151 976	23.3	9	10	(W)
	5 437 379	10 574	5 413 813	66	23 565	2 369 961	129.4	3	3	8
Colorado Connecticut Delaware District of Columbia Florida	495 721	1 078	480 340	100	15 380	518 574	-4.4	8	8	9
	1 004 372	1 832	972 188	243	32 184	280 522	258.0	4	4	15
	244 259	424	203 885	179	40 373	72 794	235.5	7	8	3
	76 143	56	14 116	208	62 027	58 218	30.8	11	17	13
	3 027 253	4 713	3 001 343	73	25 910	1 545 700	95.8	4	4	17
Georgia	932 822	2 045	877 540	158	55 282	461 979	101.9	5	6	8
	277 217	390	(D)	*10	(D)	145 845	90.1	10	(D)	(D)
	84 266	296	(D)	45	(D)	101 980	-17.4	12	(D)	(D)
	1 409 283	3 141	1 380 786	130	28 497	599 120	135.2	5	5	16
	720 619	1 915	703 690	208	16 929	328 350	119.5	6	6	19
lowa	163 358	720	155 744	149	7 613	147 041	11.1	10	11	23
Kansas	265 374	763	245 288	125	20 086	175 539	51.2	10	10	15
Kentucky	242 972	807	(D)	139	(D)	176 604	37.6	9	(D)	(D)
Louisiana	225 215	804	(D)	21	(D)	381 824	-41.0	8	(D)	(D)
Maine	408 730	1 057	403 759	69	4 970	99 871	309.3	5	5	23
Maryland	1 208 518	2 448	1 140 182	267	68 335	431 216	180.3	5	6	10
	1 501 496	3 206	1 470 843	282	30 652	447 243	235.7	4	4	10
	1 221 136	2 856	1 205 685	147	15 451	463 939	163.2	4	4	23
	677 976	1 656	668 821	121	9 155	355 869	90.5	5	5	13
	201 771	623	(D)	102	(D)	190 893	5.7	9	(D)	(D)
Missouri	663 941	1 810	644 001	101	19 940	272 386	143.8	5	5	31
	64 332	355	62 349	6	1 983	84 437	-23.8	13	14	36
	(D)	604	(D)	*25	38 059	146 794	(D)	(D)	(D)	61
	252 089	396	240 241	61	11 847	122 332	106.1	11	11	34
	500 106	1 137	463 159	294	36 946	121 910	310.2	4	5	14
New Jersey	1 757 284	3 572	1 667 965	316	89 318	539 471	225.7	3	3	8
	232 894	784	212 241	21	20 652	172 383	35.1	7	7	11
	2 491 694	6 685	2 444 461	235	47 233	906 913	174.7	3	3	15
	1 348 874	3 050	1 321 281	110	27 593	551 388	144.6	4	4	5
	55 802	214	(D)	76	(D)	54 936	1.6	17	(D)	(D)
OhioOklahomaOregonPennsylvaniaRhode Island	1 316 411	3 153	1 295 445	282	20 965	593 571	121.8	6	6	16
	176 752	518	167 201	*15	9 551	292 199	-39.5	13	13	11
	326 764	1 234	324 693	52	2 070	174 592	87.2	9	9	37
	2 206 526	4 603	2 188 160	468	18 365	805 957	173.8	3	3	14
	188 205	542	176 852	72	11 353	71 461	163.4	8	8	7
South Carolina South Dakota Tennessee Texas Utah	665 956	1 537	627 027	184	38 929	370 900	79.6	6	6	16
	38 864	221	(D)	34	(D)	45 752	-15.1	14	(D)	(D)
	537 324	1 323	500 595	147	36 728	328 074	63.8	7	8	7
	1 351 348	3 557	1 311 521	38	39 826	1 808 891	-25.3	4	4	6
	161 810	503	(D)	*13	(D)	145 001	11.6	11	(D)	(D)
Vermont Virginia Washington West Virginia Wisconsin Wyoming	307 209	734	302 773	50	*4 435	94 517	225.0	6	6	71
	1 279 732	2 970	1 226 393	170	53 339	512 956	149.5	4	4	9
	749 520	2 577	738 198	48	11 322	439 457	70.6	5	5	23
	145 993	638	(D)	194	(D)	125 375	16.4	8	(D)	(D)
	(D)	1 996	(D)	179	(D)	318 045	(D)	(D)	(D)	(D)
	46 146	182	(D)	52	(D)	92 511	-50.1	20	(D)	(D)

In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 11. Dollar Value of Business Done for Establishments With Payroll by Kind of **Business Activity: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. Based on their primary business activity or combination of activities, establishments were classified into this specific industry. These establishments, however, may also be engaged in other kinds of business activities. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Primary and other kinds of business activities	Dollar value o	f business done ¹	Relative standard error of estimate (percent)		
	1987	1982	1987	1982	
All kinds of business	40 105 269	20 129 090	1	1	
General building contractor	26 247 50° 1 419 244		1 3	1 4	
Résidential remodeling contractor	7 640 348 100 82 688 97	32 042	10 10	1 6 (S)	
Retail tradeSale of land	108 749 331 400	70 161 70 338	7	6 9	
Investment builder Other activities Kind of business activity, n.s.k	99 823 417 68 3 050 718	(S)	6 2 2	(S) (S)	

In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 12. Selected Industry Ratios for Establishments With Payroll: 1987 and 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	1987	1982	Relative standard error of estimate (percent) for 1987
AVERAGE PER ESTABLISHMENT			
Number of employees**	4.4 3.4 1.0 69.4 48.1 21.3	4.3 3.5 (NA) 50.0 38.1 11.9	1 1 1 1 1
Dollar value of business done	443.8 432.6 147.8 130.3 3.6 5.7 37.0	279.1 272.4 93.2 76.7 2.3 3.8 33.9	1 1 1 1 2 2 2
AVERAGE PER EMPLOYEE Payroll, all employees	15.8 101.2	11.6 65.0	(w)
Value added†† do-	37.8	25.4	i
AVERAGE PER CONSTRUCTION WORKER			
Payroll, construction workers	14.1 127.2 1 531.0	10.8 77.5 1 426.9	(W) 1 1
AVERAGE PER OTHER EMPLOYEE			
Payroll, other employees\$1,000	21.7	(NA)	1
AVERAGE PER DOLLAR VALUE OF CONSTRUCTION WORK ¹			
Payroll, all employees Cost of materials, components, supplies, and fuels Cost of construction work subcontracted to others Rental cost for machinery, equipment, and buildings	.160 .342 .301 .008	.184 .342 .282 .009	1 1 1 2

¹ n earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 13. Selected Industry Ratios for Establishments With Payroll by State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					Average per dollar of value of construction work					
Location of establishment	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost for machinery, equipment, and buildings		
United States	4.4	15.8	1 531.0	127.2	.160	.342	.301	.008		
AlabamaAlaskaArizonaArkansasCalifornia	4.6 (S) 4.8 3.3 4.7	12.3 (S) 15.9 13.5 17.6	1 444.2 (S) 1 612.9 1 517.1 1 361.8	108.6 (S) 147.7 117.7 138.2	.144 (S) .144 .149 .162	.377 (S) .280 .408 .265	.292 (S) .382 .289 .353	.007 (S) .007 .007		
Colorado Connecticut Delaware District of Columbia Florida	4.3 5.3 5.5 4.1 5.4	16.4 18.7 15.2 19.6 15.5	1 566.2 1 602.5 1 630.3 1 904.2 1 480.8	136.6 127.4 111.9 135.4 174.6	.157 .184 .169 .200 .125	.320 .330 .326 (D) (D)	.346 .266 .304 .396 .345	.009 .009 .008 .004 .007		
Georgia	4.3 4.8 3.5 4.3 4.3	13.4 20.1 12.6 17.4 15.5	1 452.6 1 460.4 1 395.8 1 607.4 1 622.3	(D) 185.3 114.1 131.3 111.4	(D) .140 .141 .168 .178	(D) .233 .309 .320 .380	(D) .363 .354 .320 .246	(D) .010 .006 .005 .007		
lowa Kansas Kentucky Louisiana Maine	3.0 3.9 3.5 3.4 5.1	12.2 14.7 13.2 13.1 14.4	1 695.5 1 582.6 1 401.1 1 373.8 1 693.8	101.0 119.8 104.0 115.9 94.3	.148 .159 .153 .167 .187	.367 .353 .413 .349	.267 .263 .253 .260 .259	.004 .010 .007 .008 .010		
Maryland	5.2 4.8 4.3 4.0 3.8	16.4 18.4 15.9 17.6 11.0	1 600.2 1 624.2 1 557.0 1 474.0 1 406.5	123.1 123.0 125.9 133.9 88.5	.170 .188 .161 .169 .153	.334 .336 .367 .351 .373	.299 .278 .292 .289 .247	.008 .008 .008 .008		
Missouri	4.4 2.3 3.3 4.6 5.2	15.6 13.2 13.7 19.1 16.9	1 550.2 1 090.0 1 560.6 1 633.2 1 598.8	105.9 93.3 109.0 172.8 98.5	.186 .170 .165 .147 .210	.330 .342 .353 .254 .348	.245 .249 .301 .383 .255	.007 .007 .008 .008 .012		
New Jersey	4.4 3.8 4.3 4.7 3.2	18.5 12.7 16.0 14.2 10.9	1 572.9 1 506.2 1 652.1 1 564.5 1 569.6	134.5 88.5 108.7 122.8 82.4	.176 .180 .185 .150	.372 .367 .362 .371 .424	.283 .270 .231 .317 .194	.011 .008 .011 .007 .007		
OhioOklahomaOregonPennsylvaniaRhode Island	4.0 3.2 3.0 4.5 4.1	15.7 14.8 13.0 16.0 15.7	1 597.1 1 247.2 1 261.0 1 695.3 1 405.6	131.3 163.9 124.9 141.1 96.2	.154 .145 .145 .146 .192	.356 .366 .332 .372 .387	.271 .351 .314 .304 .241	.008 .014 .011 .007 .008		
South Carolina	4.4 3.2 4.5 3.7 2.9	13.0 9.8 12.6 14.8 13.4	1 521.6 1 406.9 1 530.9 1 478.0 1 480.7	122.5 52.6 107.3 154.2 139.8	.139 .205 .146 .140 .121	.391 .422 .396 .372 .332	.291 .149 .241 .298 .338	.008 .006 .007 .012 .005		
Vermont	5.1 5.0 3.2 3.7 3.9 (S)	16.4 14.2 14.8 11.8 15.7 (S)	1 741.9 1 495.4 1 242.3 1 465.6 1 622.7 (S)	103.2 108.8 114.7 70.6 (D) (S)	.195 .168 .163 .207 (D) (S)	.344 .358 .325 .367 (L) (S)	.296 .273 .313 .175 (D) (S)	.007 .007 .007 .006 (D) (S)		



APPENDIX A. Explanation of Terms

Construction—Is composed of three broad categories:

- 1. **New construction**—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
- Additions, alterations or reconstruction—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
- 3. **Maintenance and repair**—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

All employees—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

Construction workers—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

Payroll—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Employer costs for fringe benefits (supplemental labor costs)—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

Legally required contributions—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

Voluntary payments—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

Value of construction work done—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

Other business receipts—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

Net value of construction work—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Selected costs—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems;
 etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- · costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

Rental costs for machinery, equipment, and buildings—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It

excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

Assets and depreciation—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

Capital expenditures—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

Inventories—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale. Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Ownership of construction projects—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

Value of construction work subcontracted in from others—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

- Single-family houses, detached—Includes all residential buildings constructed for one family use.
- Single-family houses, attached (include town-houses)—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- Apartment buildings with two or more apartments—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- Hotels and motels—Includes hotels, motels, and tourist cabins intended for transient accommodations.

- Other residential buildings—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- Office buildings—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- Other commercial buildings, such as stores, restaurants, and automobile service stations— Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- Industrial buildings—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- Warehouses—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- Religious buildings—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- Educational buildings—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- Hospitals and institutional buildings—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- Farm buildings, nonresidential—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- Amusement, social, and recreational buildings— Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- Other nonresidential buildings—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

Nonbuilding construction:

- Highways, streets and related work, such as installation of guardrails, highway signs, etc.—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- Outdoor swimming pools—Includes wading pools and reflecting pools.
- Recreational facilities—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- Bridges and elevated highways—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- Tunnels—Includes highway, pedestrian, and railroad tunnels.
- Railroad construction—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- Subway construction—Includes urban mass transit subway systems above or below ground.
- Dam and reservoir construction—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- Marine construction—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- Harbor and port facilities—Includes docks, piers, and wharves.
- Conservation and development construction— Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- Power and communication transmission lines, towers, and related facilities—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- Power plants, except nuclear—Includes electric and steam generating plants.
- Power plants, nuclear—Includes atomic energy plants, and nuclear reactors.
- Sewers, sewerlines, and related facilities—Includes sanitary and storm sewers, and related facilities.
- Sewage treatment plants—Includes sewage treatment and waste disposal plants.
- Water mains and related facilities—Includes water supply systems and related facilities.

- Water treatment plants—Includes water filtration and water softening plants.
- Pipeline construction other than sewer or waterlines—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- Blast furnaces, petroleum refineries, chemical complexes, etc.—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- Other nonbuilding construction—Includes all types of nonbuilding construction, not included elsewhere.



APPENDIX B.

Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	1 73 1731	Electrical Work Special Trade Contractors Electrical Work Special Trade Contractors
1521 1522	General Contractors—Single-Family Houses General Contractors—Residential Buildings, Other Than Single-Family	1 74 1741	Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
153 1531	Operative Builders Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentry and Floor Work Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751 1752	Carpentry Work Special Trade Contractors Floor Laying and Other Floor Work Special
16	HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION— CONTRACTORS	176	Trade Contractors, Not Elsewhere Classified Roofing, Siding, and Sheet Metal Work
161	Highway and Street Construction, Except Elevated Highways	1761	Special Trade Contractors Roofing, Siding, and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors, Except Elevated Highways	1 77 1771	Concrete Work Special Trade Contractors Concrete Work Special Trade Contractors
1 62	Heavy Construction, Except Highway and Street Construction Bridge, Tunnel, and Elevated Highway	178 1781	Water Well Drilling Special Trade Contractors Water Well Drilling Special Trade Contractors
1623	Construction Contractors Water, Sewer, Pipeline, and Communications	179	Miscellaneous Special Trade Contractors
1629	and Powerline Construction Heavy Construction, Not Elsewhere Classified	1791	Structural Steel Erection Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	1793 1794 1795	Glass and Glazing Work Special Trade Contractors Excavation Work Special Trade Contractors Wrecking and Demolition Work Special
171	Plumbing, Heating, and Air-Conditioning	1796	Trade Contractors Installation or Erection of Building Equipment,
1711	Special Trade Contractors Plumbing, Heating, and Air-Conditioning Special Trade Contractors		Special Trade Contractors, Not Elsewhere Classified
172	Painting and Paper Hanging Special Trade Contractors	1799	Special Trade Contractors, Not Elsewhere Classified
1721	Painting and Paper Hanging Special Trade Contractors	6552	LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES



APPENDIX C. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts

New Hampshire Rhode Island

Vermont

MIDDLE ATLANTIC STATES

New Jersey New York Pennsylvania

EAST NORTH CENTRAL STATES

Illinois Indiana Michigan Ohio Wisconsin

WEST NORTH CENTRAL STATES

Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina South Carolina Virginia West Virginia

EAST SOUTH CENTRAL STATES

Alabama Kentucky Mississippi Tennessee

WEST SOUTH CENTRAL STATES

Arkansas Louisiana Oklahoma Texas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska California Hawaii Oregon Washington

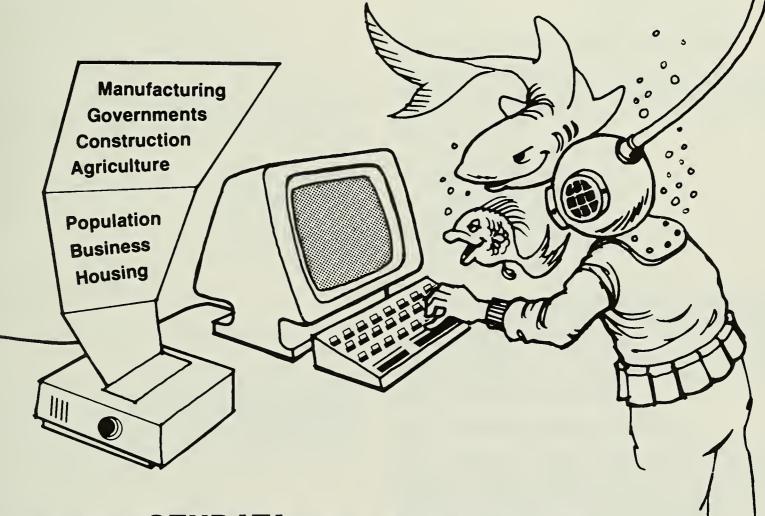


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1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- · Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

Printed reports [P

• CD-ROM [C]

Computer tape

• Highlights online [+]

Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P

ITI

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
 Value of construction work
- Number of employees
- Payroll
- Hours worked
- Value of construction work done, by type of structure
- Selected operating costs

Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

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The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

- · Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

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General Contractors—Single-Family Houses

1987 Census of Co

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Not to be to